

Common Problems

- Chemical attack causing degradation of the structure.
- Lack of protection due to failed or inadequate existing coatings.
- Need to comply with more stringent legislation.

Set-up

All work should be carried out in strict accordance with the relevant Belzona® Instructions For Use. **In particular, coverage rates and overcoating times must be observed.**

Product selection should be made with full knowledge of all chemicals that are present, together with an understanding of the work procedures adopted in the area to be treated

The application site must be available for sufficient time to allow for thorough cleaning, surface preparation, application and curing of the materials used.

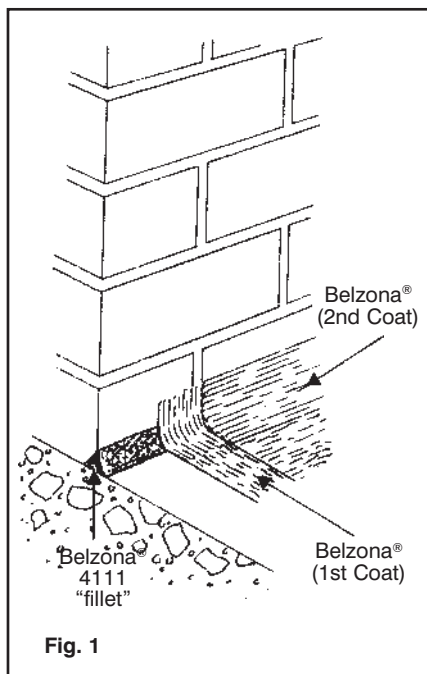
Preparation

Existing failed coatings should be completely removed. Badly damaged surfaces should be repaired. Please see Belzona® Know-How Systems Leaflets TCC-9, "Repairing damaged concrete and restoring drainage".

Remove chemical contamination in existing substrate by either steam cleaning, high pressure water washing or thorough washing with detergent solution, followed by rinsing with clean water. The surface should then be abraded to expose the aggregate by grit blasting or mechanical scarification. Any cracks in the substrate should be made good with **Belzona® 4111**.

Any new concrete must be left for a minimum of 28 days, after which time any surface laitance should be removed by grit blasting or mechanical scarification.

It is advisable to apply a fillet of **Belzona® 4111** to reinforce the junction between the wall and the floor (fig 1).



Conditioning

The application of **Belzona® 4311** requires the use of **Belzona® 4911** to achieve maximum adhesion to porous substrates such as concrete. This should be mixed in accordance with the relevant Belzona® Instructions For Use, and stippled well into the surface using a stiff bristled brush. The application of **Belzona® 4311** should commence immediately the substrate has been conditioned.

Application

Using stiff bristled brushes, airless spray equipment or squeegees as appropriate, apply the selected Belzona® Product, ensuring that the surface is wetted out as thoroughly as possible

Within the recommended overcoating time, apply a second coat of the Belzona® product to complete the system.

The application of heat to post cure the Belzona® Product is advantageous as it will not only allow the area to be returned to service in the shortest possible time, but will also provide improvements in chemical resistance of the product.

Reference should be made to Belzona® Know-How System Leaflet TCC-8 "Applying Non-Skid Surfaces to Pedestrian Areas" should a safety surface be required within the containment area.

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Belzona® Technical Comparison:

Product	Consistency	Abrasion Resistance	Working Life at 60°F (15°C)	Full Chemical Cure at 60°F (15°C)
Belzona® 4311	Fluid	High	45 minutes	14 days
Belzona® 5811	Fluid	Medium	75 minutes	14 days
Belzona® 4151	Fluid	High	27 minutes	10 days

Belzona® System Selector:

Main System Requirement	Belzona® 4311	Belzona® 5811	Belzona® 4151
Maximum chemical resistance	•		
Resistance to dilute aqueous solutions		•	
Abrasion resistance together with resistance to a broad range of dilute chemicals			•

Recommended Equipment:

<p>Mixing and application tools are included in each pack of Belzona®. Prior to carrying out the repair, however, it is important that all other necessary tools and equipment are available on site. Every situation will be somewhat different, but the basic requirements could include those shown to the right.</p>	<ul style="list-style-type: none"> • Grit Blasting Equipment • Mechanical Scarifier • Belzona® 4111 • Stone Cutting Discs • Stiff Bristled Brushes • Polyethylene Sheeting 	<ul style="list-style-type: none"> • Air Blowers for Cold Weather Application and Post Curing • Suitable Protective Clothing/ Equipment • Chisels
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For more complete technical information, please refer to the appropriate Belzona® Product Specification Sheet.
 For detailed instructions on surface preparation, mixing and cure, please refer to the appropriate Belzona® Instructions For Use.
 Comprehensive Health and Safety information is provided with the product.
 All of these are available through your local Belzona® Engineer

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